

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Pater and Trademark Office Address: COMMISSIONER FOR PATENTS 10,00x 1450 Alexandria, Virginia 22313-1450 www.usotu.eov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/801,809	03/15/2004	Laszlo Hars	US03 0060	1911
24738 7590 05/02/2007 PHILIPS ELECTRONICS NORTH AMERICA CORPORATION INTELLECTUAL PROPERTY & STANDARDS			EXAMINER	
			YAARY, MICHAEL D	
	1109 MCKAY DRIVE, M/S-41SJ SAN JOSE, CA 95131		ART UNIT	PAPER NUMBER
Drift Tobb, O.			2193	
			MAIL DATE	DELIVERY MODE
			05/02/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/801,809	HARS, LASZLO			
Office Action Summary	Examiner	Art Unit			
	Michael Yaary	2193			
The MAILING DATE of this communication a	appears on the cover sheet wit	h the correspondence address			
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory peri- Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the ma earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNIC 1.136(a). In no event, however, may a re od will apply and will expire SIX (6) MONT tute, cause the application to become ABA	ATION. ply be timely filed HS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 15	<u> March 2004</u> .				
· <u> </u>	,—				
3) ☐ Since this application is in condition for allow		•			
closed in accordance with the practice unde	r Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.			
Disposition of Claims					
4) ⊠ Claim(s) 1-20 is/are pending in the application 4a) Of the above claim(s) is/are withd 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-20 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and	rawn from consideration.				
Application Papers					
9) The specification is objected to by the Examination The drawing(s) filed on 15 March 2004 is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction The oath or declaration is objected to by the	e: a) accepted or b) objection accepted or b) objection is required if the drawing(s)	ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119	•				
12) Acknowledgment is made of a claim for forei a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a least	ents have been received. ents have been received in Apriority documents have been reau (PCT Rule 17.2(a)).	oplication No received in this National Stage			
Attachment(s)					
1) Notice of References Cited (PTO-892)		ummary (PTO-413)			
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date		/Mail Date formal Patent Application 			

Detailed Action

1. Claims 1-20 are pending in the application.

Objections

- 2. Claims 4-7, and 9 are objected to because of the following informalities:
- Claim 4, line 8 has a misspelling of the word "having." (i)
- (ii) Claim 5, line 7 has a misspelling of the word "pair."
- (iii) Claim 6, line 1 has a misspelling in the words "wherein the."
- (iv) Claim 7, line 1 has a misspelling of the word "generator."
- Claim 9, line 2 has a misspelling of the word "flip." (v)

Appropriate corrections are required.

Drawings

3. The drawings are objected to under 37 CFR 1.83(a) because they fail to show the limitations as described in [0023] of the specification. Figure 3b is directed to a specific arrangement of the flip-flops used in the random number generator. However, the description in [0023] of the specification does not correspond to figure 3b that was filed. Any structural detail that is essential for a proper understanding of the disclosed invention should be shown in the drawing. MPEP § 608.02(d). Corrected drawing

Application/Control Number: 10/801,809 Page 3

Art Unit: 2193

sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 101

4. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

5. As to claims 1-20 the claims are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Art Unit: 2193

As to claims 1 and 11, the claims are non-statutory as they fail to produce a "useful, concrete, and tangible result." *State Street Bank & Trust Co. v. Signature*Financial Group Inc., 149 F. 3d 1368, 1373-74 (Fed. Cir. 1998). The claims are directed to nothing more than a circuit arranged in a manner to produce a random signal as an output. The claims fail to provide a useful, concrete, and tangible result using the output of the specific arrangement, and thus fail to indicate how the invention accomplishes a practical application. Suggested ways to overcome the rejection would be to incorporate into the claims, as taught in the specification, ways in which the random signal output is used in a practical application.

(ii) Claims 2-10, and 12-20 are rejected for similar reasons as discussed for their respective parent claims, as they fail to present any limitations that resolve the deficiencies of the claim from which they depend.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 1, 2, 7-12, and 17-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fujita et al. (hereafter Fujita)(US Pub. 2003/0061250) in view of Schulz (US Pat. 4,905,176).

Application/Control Number: 10/801,809

Page 5

Art Unit: 2193

8. **As to claims 1 and 11,** Fujita discloses a plurality of groups of independent flip-flops each of the groups having different configurations (five UFFs (flip-flops) of figure 18A each having different voltages, thus having different configurations.); and

Each of the outputs of the plurality of groups of flip-flops being connected in an exclusive-or (XOR) network (UFF outputs each connected to XOR in figure 18A),

Wherein a metastable output of at least one flip-flop of the plurality of groups of flip-flops causes a random signal to be output by the XOR network for number generation ([0049], lines 1-9; [0050], lines 1-4; [0056], lines 1-10; and [0084], lines 1-7).

- Fujita does not disclose a latch connected to the output of the XOR network.
 However, Schulz discloses a latch connected to the output of the XOR network
 (latch 26 of figure 4).
- 10. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the teachings of Fujita, by connecting a latch to the XOR output, as taught by Schulz, in order to sample the random signal at low frequency.
- 11. **As to claims 2 and 12,** Fujita further discloses wherein the groups of flip-flops are divided into at least three equally sized groups (five groups of flip-flops in figure 18A).

Application/Control Number: 10/801,809

Page 6

Art Unit: 2193

12. **As to claims 7 and 17,** Fujita further discloses the groups of flip-flops have unequal numbers of flip-flops in each group (Inherent in figure 18A, as the number of flip-flops present is none other than a preference of a design choice for the circuit, thus being able to have an equal or unequal amount of flip-flops in each group.).

- 13. **As to claims 8 and 18,** Schulz discloses each of the groups of flip-flops have different delay values (column 6, lines 41-49).
- 14. **As to claims 9 and 19,** Fujita further discloses a portion of the flip-flops are NAND gates, and the remainder are Boolean equivalents of NAND gates ([0116], lines 1-7).
- 15. **As to claims 10 and 20,** Fujita further discloses the groups of flip-flops are arranged into one of thirds or fifths (the flip-flops are divided into 5 groups in figure 18A).

Allowable Subject Matter

16. Claims 3-6 and 13-16 are objected to as being dependent upon rejected base claims, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Art Unit: 2193

17. Claims 3-6 and 13-16 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 101, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Yaary whose telephone number is (571) 270-1249. The examiner can normally be reached on Monday-Friday, 8:00 a.m - 5:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on (571) 272-3756. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

MY

MENDIALT. AN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100